

## Gregory, Bernarr

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**From:** PLUS  
**Sent:** Thursday, February 10, 2005 2:08 PM  
**To:** Gregory, Bernarr  
**Subject:** PLUS Results for 10761014

Here are the PLUS search results for 10761014.

This search was prepared by the staff of the Scientific and Technical Information Center, SIRA. If you have questions or comments about this search, please reply via email to [PLUS@uspto.gov](mailto:PLUS@uspto.gov).



10761014\_QUAL  
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10761014\_LIST.  
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10761014\_WES  
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10761014\_EAST  
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10761014.east



10761014\_CLS.t  
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PLUS Search Results for S/N 10761014, Searched February 10, 2005

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

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Most Frequently Occurring Classifications of Patents Returned  
From A Search of 10761014 on February 10, 2005

Original Classifications

15	331/1A
15	455/76
14	331/16
11	708/276
10	331/2
7	331/18
7	331/4
7	375/308
6	327/105
6	708/271
5	327/106
5	375/376
4	327/107
4	331/1R
4	331/25
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3	375/326
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2	375/222
2	375/296
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2	375/316
2	375/350
2	375/377
2	455/182.2
2	455/182.3

Cross-Reference Classifications

61	331/25
25	327/105
25	455/260
21	331/17
21	375/376

20 331/16  
19 455/76  
18 331/18  
17 327/106  
16 327/107  
14 708/276  
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 2 725/68

Combined Classifications

65 331/25  
 34 331/16  
 34 455/76  
 31 327/105  
 28 455/260  
 26 331/1A  
 26 375/376  
 25 331/18  
 25 708/276  
 24 331/17  
 22 327/106  
 20 327/107  
 16 331/2  
 16 375/308  
 14 332/127  
 14 708/271  
 13 331/4  
 12 327/156  
 12 332/103  
 11 455/183.1  
 10 332/144  
 9 331/14  
 9 331/23  
 9 332/128  
 7 331/10  
 7 331/19  
 7 375/344  
 7 455/113  
 6 324/76.27  
 6 327/159  
 6 331/178  
 6 331/1R  
 6 331/34

6 375/303  
6 375/327  
6 375/373  
6 455/119  
6 708/270  
5 324/76.23  
5 329/304  
5 331/179  
5 331/40  
5 331/DIG 2  
5 348/735  
5 375/329  
5 375/371  
5 455/110  
5 455/118  
5 455/165.1  
5 455/183.2  
5 455/315  
4 327/157  
4 331/27  
4 331/36C  
4 332/101  
4 332/117  
4 332/119  
4 348/731  
4 375/326  
4 375/345  
4 375/375  
4 377/48  
4 455/112  
4 455/12.1  
4 455/182.2  
4 455/182.3  
4 455/192.2  
4 455/209  
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3 324/76.19  
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3 331/96  
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3 375/216

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3 375/271  
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3 708/313  
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2 324/344  
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2 331/117D  
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2 332/125  
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2 341/118  
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 2 348/732  
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 2 375/130  
 2 375/140  
 2 375/147  
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 2 375/298  
 2 375/302  
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 2 375/306  
 2 375/307  
 2 375/316  
 2 375/317  
 2 375/324  
 2 375/346  
 2 375/350  
 2 375/367  
 2 375/372  
 2 377/44  
 2 377/47  
 2 455/126  
 2 455/164.2  
 2 455/182.1  
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 2 455/208  
 2 455/226.1  
 2 455/264  
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 2 455/3.02  
 2 455/304  
 2 455/310  
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 2 455/67.13  
 2 455/75  
 2 455/77  
 2 455/84  
 2 702/69  
 2 702/75  
 2 708/272  
 2 725/68

Titles of Most Frequently Occurring Classifications of Patents Returned  
From A Search of 10761014 on February 10, 2005

65	331/25	(4 OR, 61 XR)
	Class 331 :	OSCILLATORS
	331/1R	AUTOMATIC FREQUENCY STABILIZATION USING A PHASE OR FREQUENCY SENSING MEANS
	331/18	.With reference oscillator or source
	331/25	..Signal or phase comparator
34	331/16	(14 OR, 20 XR)
	Class 331 :	OSCILLATORS
	331/1R	AUTOMATIC FREQUENCY STABILIZATION USING A PHASE OR FREQUENCY SENSING MEANS
	331/16	.Tuning compensation
34	455/76	(15 OR, 19 XR)
	Class 455 :	TELECOMMUNICATIONS
	455/73	TRANSMITTER AND RECEIVER AT SAME STATION (E.G., TRANSCEIVER)
	455/75	.With frequency stabilization (e.g., automatic frequency control)
	455/76	..Synthesizer
31	327/105	(6 OR, 25 XR)
	Class 327 :	MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR DEVICES, CIRCUITS, AND SYSTEMS
	327/100	SIGNAL CONVERTING, SHAPING, OR GENERATING
	327/105	.Synthesizer
28	455/260	(3 OR, 25 XR)
	Class 455 :	TELECOMMUNICATIONS
	455/130	RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER
	455/230	.Local control of receiver operation
	455/255	..Local oscillator frequency control
	455/257	...Automatic
	455/258	....Utilizing particular local oscillator control
	455/259	.....Reference oscillator or source
	455/260	.....Phase lock loop or frequency synthesizer
26	331/1A	(15 OR, 11 XR)
	Class 331 :	OSCILLATORS
	331/1R	AUTOMATIC FREQUENCY STABILIZATION USING A PHASE OR FREQUENCY SENSING MEANS
	331/1A	.AFC with logic elements
26	375/376	(5 OR, 21 XR)
	Class 375 :	PULSE OR DIGITAL COMMUNICATIONS
	375/354	SYNCHRONIZERS
	375/371	.Phase displacement, slip or jitter correction
	375/373	..Phase locking
	375/376	...Phase locked loop
25	331/18	(7 OR, 18 XR)
	Class 331 :	OSCILLATORS
	331/1R	AUTOMATIC FREQUENCY STABILIZATION USING A PHASE OR FREQUENCY SENSING MEANS
	331/18	.With reference oscillator or source

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- 25 708/276 (11 OR, 14 XR)  
 Class 708 : ELECTRICAL COMPUTERS: ARITHMETIC PROCESSING  
 AND CALCULATING  
 708/100 ELECTRICAL DIGITAL CALCULATING COMPUTER  
 708/200 .Particular function performed  
 708/270 ..Function generation  
 708/276 ...Trigonometric
- 24 331/17 (3 OR, 21 XR)  
 Class 331 : OSCILLATORS  
 331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE  
 OR FREQUENCY SENSING MEANS  
 331/17 .Particular error voltage control (e.g.,  
 integrating network)
- 22 327/106 (5 OR, 17 XR)  
 Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR  
 DEVICES, CIRCUITS, AND SYSTEMS  
 327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING  
 327/105 .Synthesizer  
 327/106 ..Having stored waveform data (e.g., in ROM,  
 etc.)
- 20 327/107 (4 OR, 16 XR)  
 Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR  
 DEVICES, CIRCUITS, AND SYSTEMS  
 327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING  
 327/105 .Synthesizer  
 327/107 ..Having digital device (e.g., logic gate,  
 flip-flop, etc.)
- 16 331/2 (10 OR, 6 XR)  
 Class 331 : OSCILLATORS  
 331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE  
 OR FREQUENCY SENSING MEANS  
 331/2 .Plural oscillators controlled
- 16 375/308 (7 OR, 9 XR)  
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
 375/295 TRANSMITTERS  
 375/302 .Angle modulation  
 375/308 ..Phase shift keying
- 14 332/127 (1 OR, 13 XR)  
 Class 332 : MODULATORS  
 332/117 FREQUENCY MODULATOR  
 332/123 .Including stabilization or alternatively  
 distortion, noise or other interference prevention,  
 reduction, or compensation  
 332/126 ..Automatic frequency stabilization or control  
 332/127 ...Phase or frequency locked loop
- 14 708/271 (6 OR, 8 XR)  
 Class 708 : ELECTRICAL COMPUTERS: ARITHMETIC PROCESSING  
 AND CALCULATING  
 708/100 ELECTRICAL DIGITAL CALCULATING COMPUTER  
 708/200 .Particular function performed  
 708/270 ..Function generation  
 708/271 ...Direct digital frequency synthesizer
- 13 331/4 (7 OR, 6 XR)

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Class	331 :	OSCILLATORS
331/1R		AUTOMATIC FREQUENCY STABILIZATION USING A PHASE OR FREQUENCY SENSING MEANS
331/4		.Search sweep of oscillator
12 327/156	(2 OR, 10 XR)	
Class	327 :	MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR DEVICES, CIRCUITS, AND SYSTEMS
327/100		SIGNAL CONVERTING, SHAPING, OR GENERATING
327/141		.Synchronizing
327/155		..With feedback
327/156		...Phase lock loop
12 332/103	(4 OR, 8 XR)	
Class	332 :	MODULATORS
332/103		PHASE SHIFT KEYING MODULATOR OR QUADRATURE AMPLITUDE MODULATOR
11 455/183.1	(1 OR, 10 XR)	
Class	455 :	TELECOMMUNICATIONS
455/130		RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER
455/150.1		.Signal selection based on frequency (e.g., tuning)
455/179.1		..Channel or station selection
455/183.1		...With frequency synthesizer
10 332/144	(0 OR, 10 XR)	
Class	332 :	MODULATORS
332/144		PHASE MODULATOR
9 331/14	(2 OR, 7 XR)	
Class	331 :	OSCILLATORS
331/1R		AUTOMATIC FREQUENCY STABILIZATION USING A PHASE OR FREQUENCY SENSING MEANS
331/14		.With intermittent comparison controls
9 331/23	(1 OR, 8 XR)	
Class	331 :	OSCILLATORS
331/1R		AUTOMATIC FREQUENCY STABILIZATION USING A PHASE OR FREQUENCY SENSING MEANS
331/18		.With reference oscillator or source
331/23		..Sensing modulation (e.g., frequency modulation controlled oscillator
9 332/128	(2 OR, 7 XR)	
Class	332 :	MODULATORS
332/117		FREQUENCY MODULATOR
332/123		.Including stabilization or alternatively distortion, noise or other interference prevention, reduction, or compensation
332/126		..Automatic frequency stabilization or control
332/127		...Phase or frequency locked loop
332/128		....Modulating signal applied to plural elements of the loop
7 331/10	(2 OR, 5 XR)	
Class	331 :	OSCILLATORS
331/1R		AUTOMATIC FREQUENCY STABILIZATION USING A PHASE OR FREQUENCY SENSING MEANS
331/10		.Plural A.F.S. for a single oscillator

- 7 331/19 (0 OR, 7 XR)  
 Class 331 : OSCILLATORS  
 331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE  
 OR FREQUENCY SENSING MEANS  
 331/18 .With reference oscillator or source  
 331/19 ..Spectrum reference source
- 7 375/344 (3 OR, 4 XR)  
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
 375/316 RECEIVERS  
 375/344 .Automatic frequency control
- 7 455/113 (0 OR, 7 XR)  
 Class 455 : TELECOMMUNICATIONS  
 455/91 TRANSMITTER  
 455/110 .Angle modulation  
 455/113 ..With frequency control
- 6 324/76.27 (2 OR, 4 XR)  
 Class 324 : ELECTRICITY: MEASURING AND TESTING  
 324/76.11 MEASURING, TESTING, OR SENSING ELECTRICITY, PER  
 SE  
 324/76.12 .Analysis of complex waves  
 324/76.19 ..Frequency spectrum analyzer  
 324/76.26 ...Scanning-panoramic receiver  
 324/76.27 ....With particular sweep circuit
- 6 327/159 (0 OR, 6 XR)  
 Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR  
 DEVICES, CIRCUITS, AND SYSTEMS  
 327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING  
 327/141 .Synchronizing  
 327/155 ..With feedback  
 327/156 ...Phase lock loop  
 327/159 ....With digital element
- 6 331/178 (0 OR, 6 XR)  
 Class 331 : OSCILLATORS  
 331/177R WITH FREQUENCY ADJUSTING MEANS  
 331/178 .Cyclic frequency sweeping means (e.g.,  
 vibrato)
- 6 331/1R (4 OR, 2 XR)  
 Class 331 : OSCILLATORS  
 331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE  
 OR FREQUENCY SENSING MEANS
- 6 331/34 (0 OR, 6 XR)  
 Class 331 : OSCILLATORS  
 331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE  
 OR FREQUENCY SENSING MEANS  
 331/34 .Particular frequency control means
- 6 375/303 (0 OR, 6 XR)  
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
 375/295 TRANSMITTERS  
 375/302 .Angle modulation  
 375/303 ..Frequency shift keying
- 6 375/327 (1 OR, 5 XR)  
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
 375/316 RECEIVERS  
 375/322 .Angle modulation



375/324      ..Particular demodulator  
 375/327      ...Phase locked loop

6 375/373      (3 OR, 3 XR)  
   Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
 375/354      SYNCHRONIZERS  
 375/371      .Phase displacement, slip or jitter correction  
  
 375/373      ..Phase locking

6 455/119      (1 OR, 5 XR)  
   Class 455 : TELECOMMUNICATIONS  
 455/91       TRANSMITTER  
 455/119      .Carrier frequency stabilization

6 708/270      (1 OR, 5 XR)  
   Class 708 : ELECTRICAL COMPUTERS: ARITHMETIC PROCESSING  
                   AND CALCULATING  
 708/100      ELECTRICAL DIGITAL CALCULATING COMPUTER  
 708/200      .Particular function performed  
 708/270      ..Function generation

5 324/76.23    (0 OR, 5 XR)  
   Class 324 : ELECTRICITY: MEASURING AND TESTING  
 324/76.11    MEASURING, TESTING, OR SENSING ELECTRICITY, PER  
                   SE  
 324/76.12    .Analysis of complex waves  
 324/76.19    ..Frequency spectrum analyzer  
 324/76.23    ...With mixer

5 329/304      (1 OR, 4 XR)  
   Class 329 : DEMODULATORS  
 329/304      PHASE SHIFT KEYING OR QUADRATURE AMPLITUDE  
                   DEMODULATOR

5 331/179      (0 OR, 5 XR)  
   Class 331 : OSCILLATORS  
 331/177R     WITH FREQUENCY ADJUSTING MEANS  
 331/179      .Step-frequency change (e.g., band selection,  
                   frequency-shift keying)

5 331/40       (1 OR, 4 XR)  
   Class 331 : OSCILLATORS  
 331/37      BEAT FREQUENCY  
 331/40      .Frequency or amplitude adjustment or control

5 331/DIG 2    (0 OR, 5 XR)  
   Class 331 : OSCILLATORS  
 331/DIG 2    Phase locked loop having lock indicating or  
                   detecting means

5 348/735      (1 OR, 4 XR)  
   Class 348 : TELEVISION  
 348/725      RECEIVER CIRCUITRY  
 348/735      .Automatic frequency control

5 375/329      (1 OR, 4 XR)  
   Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
 375/316      RECEIVERS  
 375/322      .Angle modulation  
 375/329      ..Phase shift keying

- 5 375/371 (0 OR, 5 XR)  
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
 375/354 SYNCHRONIZERS  
 375/371 .Phase displacement, slip or jitter correction
- 5 455/110 (1 OR, 4 XR)  
 Class 455 : TELECOMMUNICATIONS  
 455/91 TRANSMITTER  
 455/110 .Angle modulation
- 5 455/118 (0 OR, 5 XR)  
 Class 455 : TELECOMMUNICATIONS  
 455/91 TRANSMITTER  
 455/118 .Frequency conversion
- 5 455/165.1 (0 OR, 5 XR)  
 Class 455 : TELECOMMUNICATIONS  
 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY  
 CONVERTER  
 455/150.1 .Signal selection based on frequency (e.g.,  
 tuning)  
 455/161.1 ..Frequency scanning  
 455/165.1 ...With frequency synthesizer
- 5 455/183.2 (1 OR, 4 XR)  
 Class 455 : TELECOMMUNICATIONS  
 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY  
 CONVERTER  
 455/150.1 .Signal selection based on frequency (e.g.,  
 tuning)  
 455/179.1 ..channel or station selection  
 455/183.1 ...With frequency synthesizer  
 455/183.2 ....Processor controlled
- 5 455/315 (1 OR, 4 XR)  
 Class 455 : TELECOMMUNICATIONS  
 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY  
 CONVERTER  
 455/313 .Frequency modifying or conversion  
 455/314 ..Plural separate successive conversions  
 455/315 ...With plural separate local oscillators
- 4 327/157 (0 OR, 4 XR)  
 Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR  
 DEVICES, CIRCUITS, AND SYSTEMS  
 327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING  
 327/141 .Synchronizing  
 327/155 ..With feedback  
 327/156 ...Phase lock loop  
 327/157 ....With charge pump
- 4 331/27 (0 OR, 4 XR)  
 Class 331 : OSCILLATORS  
 331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE  
 OR FREQUENCY SENSING MEANS  
 331/18 .With reference oscillator or source  
 331/25 ..Signal or phase comparator  
 331/27 ...Plural active element (e.g., triodes)
- 4 331/36C (0 OR, 4 XR)  
 Class 331 : OSCILLATORS  
 331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE

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OR FREQUENCY SENSING MEANS

331/34 .Particular frequency control means  
331/36R ..Reactance device (e.g., variable capacitors,  
saturable inductors, reactance tubes, etc.)  
331/36C ...Capacitor controlled AFC

4 332/101 (2 OR, 2 XR)  
Class 332 : MODULATORS  
332/100 FREQUENCY SHIFT KEYING MODULATOR OR MINIMUM  
SHIFT KEYING MODULATOR  
332/101 .Including logic element (e.g., logic gate or  
flip-flop)

4 332/117 (3 OR, 1 XR)  
Class 332 : MODULATORS  
332/117 FREQUENCY MODULATOR

4 332/119 (1 OR, 3 XR)  
Class 332 : MODULATORS  
332/117 FREQUENCY MODULATOR  
332/119 .Plural modulation

4 348/731 (3 OR, 1 XR)  
Class 348 : TELEVISION  
348/725 RECEIVER CIRCUITRY  
348/731 .Tuning

4 375/326 (3 OR, 1 XR)  
Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
375/316 RECEIVERS  
375/322 .Angle modulation  
375/324 ..Particular demodulator  
375/326 ...Carrier recovery circuit or carrier tracking

4 375/345 (0 OR, 4 XR)  
Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
375/316 RECEIVERS  
375/345 .Automatic gain control

4 375/375 (1 OR, 3 XR)  
Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
375/354 SYNCHRONIZERS  
375/371 .Phase displacement, slip or jitter correction  
  
375/373 ..Phase locking  
375/375 ...With frequency detector and phase detector

4 377/48 (1 OR, 3 XR)  
Class 377 : ELECTRICAL PULSE COUNTERS, PULSE DIVIDERS, OR  
SHIFT REGISTERS: CIRCUITS AND SYSTEMS  
377/27 SYSTEMS  
377/47 .Pulse multiplication or division  
377/48 ..Multiplication or division by a fraction

4 455/112 (0 OR, 4 XR)  
Class 455 : TELECOMMUNICATIONS  
455/91 TRANSMITTER  
455/110 .Angle modulation  
455/112 ..With frequency multiplication or division

4 455/12.1 (1 OR, 3 XR)

- Class 455 : TELECOMMUNICATIONS  
 455/7 CARRIER WAVE REPEATER OR RELAY SYSTEM (I.E.,  
 RETRANSMISSION OF SAME INFORMATION)  
 455/11.1 .Portable or mobile repeater  
 455/12.1 ..Space satellite
- 4 455/182.2 (2 OR, 2 XR)  
 Class 455 : TELECOMMUNICATIONS  
 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY  
 CONVERTER  
 455/150.1 .Signal selection based on frequency (e.g.,  
 tuning)  
 455/179.1 ..Channel or station selection  
 455/182.1 ...With frequency control  
 455/182.2 ....Automatic (AFC)
- 4 455/182.3 (2 OR, 2 XR)  
 Class 455 : TELECOMMUNICATIONS  
 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY  
 CONVERTER  
 455/150.1 .Signal selection based on frequency (e.g.,  
 tuning)  
 455/179.1 ..Channel or station selection  
 455/182.3 ...Fine tuning
- 4 455/192.2 (0 OR, 4 XR)  
 Class 455 : TELECOMMUNICATIONS  
 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY  
 CONVERTER  
 455/150.1 .Signal selection based on frequency (e.g.,  
 tuning)  
 455/192.1 ...With frequency control  
 455/192.2 ...Automatic (AFC)
- 4 455/209 (1 OR, 3 XR)  
 Class 455 : TELECOMMUNICATIONS  
 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY  
 CONVERTER  
 455/205 .Frequency or phase modulation  
 455/208 ..With synchronized or controlled local  
 oscillator  
 455/209 ...Plural local oscillators or mixers
- 4 455/87 (0 OR, 4 XR)  
 Class 455 : TELECOMMUNICATIONS  
 455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.,  
 TRANSCEIVER)  
 455/84 .With a common signal processing stage  
 455/86 ..Transmitter oscillator used as local  
 oscillator  
 455/87 ...Tunable or variable
- 3 324/76.19 (1 OR, 2 XR)  
 Class 324 : ELECTRICITY: MEASURING AND TESTING  
 324/76.11 MEASURING, TESTING, OR SENSING ELECTRICITY, PER  
 SE  
 324/76.12 .Analysis of complex waves  
 324/76.19 ..Frequency spectrum analyzer
- 3 327/113 (0 OR, 3 XR)  
 Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR  
 DEVICES, CIRCUITS, AND SYSTEMS  
 327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING

- 327/113 .Frequency or repetition rate conversion or control
- 3 327/115 (0 OR, 3 XR)  
 Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR DEVICES, CIRCUITS, AND SYSTEMS  
 327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING  
 327/113 .Frequency or repetition rate conversion or control  
 327/114 ..of output rectangular waveform  
 327/115 ...Frequency division
- 3 327/129 (0 OR, 3 XR)  
 Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR DEVICES, CIRCUITS, AND SYSTEMS  
 327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING  
 327/129 .Generating sinusoidal output
- 3 327/147 (0 OR, 3 XR)  
 Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR DEVICES, CIRCUITS, AND SYSTEMS  
 327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING  
 327/141 .Synchronizing  
 327/144 ..Using multiple clocks  
 327/146 ...With feedback  
 327/147 ....Phase lock loop
- 3 327/551 (0 OR, 3 XR)  
 Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR DEVICES, CIRCUITS, AND SYSTEMS  
 327/524 SPECIFIC IDENTIFIABLE DEVICE, CIRCUIT, OR SYSTEM  
 327/551 .Unwanted signal suppression
- 3 327/7 (1 OR, 2 XR)  
 Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR DEVICES, CIRCUITS, AND SYSTEMS  
 327/1 SPECIFIC SIGNAL DISCRIMINATING (E.G., COMPARING, SELECTING, ETC.) WITHOUT SUBSEQUENT CONTROL  
 327/2 .By phase  
 327/3 ..Comparison between plural inputs (e.g., phase angle indication, lead-lag discriminator, etc.)  
 327/7 ...With reference signal
- 3 331/11 (2 OR, 1 XR)  
 Class 331 : OSCILLATORS  
 331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE OR FREQUENCY SENSING MEANS  
 331/10 .Plural A.F.S. for a single oscillator  
 331/11 ..Plural comparators or discriminators
- 3 331/176 (1 OR, 2 XR)  
 Class 331 : OSCILLATORS  
 331/175 FREQUENCY STABILIZATION  
 331/176 .Temperature or current responsive means in circuit
- 3 331/177R (0 OR, 3 XR)  
 Class 331 : OSCILLATORS  
 331/177R WITH FREQUENCY ADJUSTING MEANS
- 3 331/177V (0 OR, 3 XR)

- Class 331 : OSCILLATORS  
 331/177R WITH FREQUENCY ADJUSTING MEANS  
 331/177V .With voltage sensitive capacitor
- 3 331/30 (0 OR, 3 XR)  
 Class 331 : OSCILLATORS  
 331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE  
 OR FREQUENCY SENSING MEANS  
 331/30 .With stable heterodyne oscillator or source
- 3 331/31 (0 OR, 3 XR)  
 Class 331 : OSCILLATORS  
 331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE  
 OR FREQUENCY SENSING MEANS  
 331/30 .With stable heterodyne oscillator or source  
 331/31 ..Plural significant heterodyne stages
- 3 331/43 (0 OR, 3 XR)  
 Class 331 : OSCILLATORS  
 331/37 BEAT FREQUENCY  
 331/42 .With particular signal combining means (e.g.,  
 cavity mixer)  
 331/43 ..With filter in mixer output circuit
- 3 331/66 (0 OR, 3 XR)  
 Class 331 : OSCILLATORS  
 331/65 WITH DEVICE RESPONSIVE TO EXTERNAL PHYSICAL  
 CONDITION  
 331/66 .Temperature or light responsive
- 3 331/96 (2 OR, 1 XR)  
 Class 331 : OSCILLATORS  
 331/96 WITH DISTRIBUTED PARAMETER RESONATOR
- 3 332/100 (3 OR, 0 XR)  
 Class 332 : MODULATORS  
 332/100 FREQUENCY SHIFT KEYING MODULATOR OR MINIMUM  
 SHIFT KEYING MODULATOR
- 3 332/123 (1 OR, 2 XR)  
 Class 332 : MODULATORS  
 332/117 FREQUENCY MODULATOR  
 332/123 .Including stabilization or alternatively  
 distortion, noise or other interference prevention,  
 reduction, or compensation
- 3 332/124 (1 OR, 2 XR)  
 Class 332 : MODULATORS  
 332/117 FREQUENCY MODULATOR  
 332/123 .Including stabilization or alternatively  
 distortion, noise or other interference prevention,  
 reduction, or compensation  
 332/124 ..Nonlinearity reduction or compensation
- 3 342/118 (0 OR, 3 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/118 DETERMINING DISTANCE
- 3 342/175 (0 OR, 3 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/175 WITH PARTICULAR CIRCUIT

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- 3 342/195 (0 OR, 3 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
           AND DEVICES  
       342/175 WITH PARTICULAR CIRCUIT  
       342/195 .Digital processing
  
- 3 342/202 (2 OR, 1 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
           AND DEVICES  
       342/175 WITH PARTICULAR CIRCUIT  
       342/202 .For pulse modulation
  
- 3 342/22 (3 OR, 0 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
           AND DEVICES  
       342/22 TRANSMISSION THROUGH MEDIA OTHER THAN AIR OR  
               FREE SPACE
  
- 3 370/516 (1 OR, 2 XR)  
 Class 370 : MULTIPLEX COMMUNICATIONS  
       370/473 ..Transmission of a single message having  
               multiple packets  
       370/498 .Combining or distributing information via time  
               channels  
       370/503 ..Synchronizing  
       370/516 ...Adjusting for phase or jitter
  
- 3 375/146 (1 OR, 2 XR)  
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
       375/130 SPREAD SPECTRUM  
       375/140 .Direct sequence  
       375/146 ..Transmitter
  
- 3 375/216 (0 OR, 3 XR)  
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
       375/216 APPARATUS CONVERTIBLE TO ANALOG
  
- 3 375/222 (2 OR, 1 XR)  
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
       375/219 TRANSCEIVERS  
       375/222 .Modems (data sets)
  
- 3 375/271 (0 OR, 3 XR)  
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
       375/259 SYSTEMS USING ALTERNATING OR PULSATING CURRENT  
  
       375/271 .Angle modulation
  
- 3 375/272 (0 OR, 3 XR)  
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
       375/259 SYSTEMS USING ALTERNATING OR PULSATING CURRENT  
  
       375/271 .Angle modulation  
       375/272 ..Frequency shift keying
  
- 3 375/279 (0 OR, 3 XR)  
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
       375/259 SYSTEMS USING ALTERNATING OR PULSATING CURRENT  
  
       375/271 .Angle modulation  
       375/279 ..Phase shift keying

- 3 375/296 (2 OR, 1 XR)  
     Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
     375/295 TRANSMITTERS  
     375/296 .Antinoise or distortion (includes  
                   predistortion)
- 3 375/377 (2 OR, 1 XR)  
     Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
     375/377 MISCELLANEOUS
- 3 455/316 (0 OR, 3 XR)  
     Class 455 : TELECOMMUNICATIONS  
     455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY  
                   CONVERTER  
     455/313 .Frequency modifying or conversion  
     455/314 ..Plural separate successive conversions  
     455/315 ...With plural separate local oscillators  
     455/316 ....With frequency stabilization for at least  
                   one local oscillator
- 3 455/324 (0 OR, 3 XR)  
     Class 455 : TELECOMMUNICATIONS  
     455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY  
                   CONVERTER  
     455/313 .Frequency modifying or conversion  
     455/323 ..Particular frequency conversion structure or  
                   circuitry  
     455/324 ...Homodyne (i.e., zero beat or synchrodyne  
                   reception)
- 3 455/67.16 (0 OR, 3 XR)  
     Class 455 : TELECOMMUNICATIONS  
     455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS  
     455/67.11 .Having measuring, testing, or monitoring of  
                   system or part  
     455/67.16 ..Phase measuring (e.g., group delay,  
                   propagation effect, etc.)
- 3 455/71 (0 OR, 3 XR)  
     Class 455 : TELECOMMUNICATIONS  
     455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS  
     455/68 .With control signal  
     455/70 ..Receiver control signal originates at message  
                   transmitter  
     455/71 ...Frequency control
- 3 455/86 (1 OR, 2 XR)  
     Class 455 : TELECOMMUNICATIONS  
     455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.,  
                   TRANSCEIVER)  
     455/84 .With a common signal processing stage  
     455/86 ..Transmitter oscillator used as local  
                   oscillator
- 3 708/313 (1 OR, 2 XR)  
     Class 708 : ELECTRICAL COMPUTERS: ARITHMETIC PROCESSING  
                   AND CALCULATING  
     708/100 ELECTRICAL DIGITAL CALCULATING COMPUTER  
     708/200 .Particular function performed  
     708/300 ..Filtering  
     708/313 ...Decimation/interpolation



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- 2 73/19.03 (2 OR, 0 XR)  
 Class 073 : MEASURING AND TESTING  
 73/19.01 GAS CONTENT OF A LIQUID OR A SOLID  
 73/19.03 .By vibration
  
- 2 73/632 (0 OR, 2 XR)  
 Class 073 : MEASURING AND TESTING  
 73/570 VIBRATION  
 73/584 .By mechanical waves  
 73/596 ..Beamed  
 73/632 ...Sonic wave transmitter or receiver  
 transducer
  
- 2 73/866.5 (0 OR, 2 XR)  
 Class 073 : MEASURING AND TESTING  
 73/866.5 PROBE OR PROBE MOUNTING
  
- 2 324/307 (0 OR, 2 XR)  
 Class 324 : ELECTRICITY: MEASURING AND TESTING  
 324/300 PARTICLE PRECESSION RESONANCE  
 324/307 .Using a nuclear resonance spectrometer system
  
- 2 324/309 (2 OR, 0 XR)  
 Class 324 : ELECTRICITY: MEASURING AND TESTING  
 324/300 PARTICLE PRECESSION RESONANCE  
 324/307 .Using a nuclear resonance spectrometer system  
  
 324/309 ..To obtain localized resonance within a sample
  
- 2 324/314 (0 OR, 2 XR)  
 Class 324 : ELECTRICITY: MEASURING AND TESTING  
 324/300 PARTICLE PRECESSION RESONANCE  
 324/307 .Using a nuclear resonance spectrometer system  
  
 324/314 ..With conditioning of transmitter signal
  
- 2 324/326 (0 OR, 2 XR)  
 Class 324 : ELECTRICITY: MEASURING AND TESTING  
 324/323 OF GEOPHYSICAL SURFACE OR SUBSURFACE IN SITU  
 324/326 .For small object detection or location
  
- 2 324/332 (0 OR, 2 XR)  
 Class 324 : ELECTRICITY: MEASURING AND TESTING  
 324/323 OF GEOPHYSICAL SURFACE OR SUBSURFACE IN SITU  
 324/332 .With radiant energy or nonconductive-type  
 transmitter
  
- 2 324/344 (0 OR, 2 XR)  
 Class 324 : ELECTRICITY: MEASURING AND TESTING  
 324/323 OF GEOPHYSICAL SURFACE OR SUBSURFACE IN SITU  
 324/344 .With radiant energy or nonconductive-type  
 receiver
  
- 2 324/613 (2 OR, 0 XR)  
 Class 324 : ELECTRICITY: MEASURING AND TESTING  
 324/600 IMPEDANCE, ADMITTANCE OR OTHER QUANTITIES  
 REPRESENTATIVE OF ELECTRICAL STIMULUS/RESPONSE  
 RELATIONSHIPS  
 324/612 .Parameter related to the reproduction or  
 fidelity of a signal affected by a circuit under test

- 324/613           ..Noise
- 2 324/76.12       (0 OR, 2 XR)  
     Class 324 : ELECTRICITY: MEASURING AND TESTING  
     324/76.11     MEASURING, TESTING, OR SENSING ELECTRICITY, PER  
                   SE  
     324/76.12     .Analysis of complex waves
- 2 324/76.33       (2 OR, 0 XR)  
     Class 324 : ELECTRICITY: MEASURING AND TESTING  
     324/76.11     MEASURING, TESTING, OR SENSING ELECTRICITY, PER  
                   SE  
     324/76.12     .Analysis of complex waves  
     324/76.19     ..Frequency spectrum analyzer  
     324/77.11     ...Nonscanning  
     324/76.33     ....Correlation
- 2 324/76.35       (0 OR, 2 XR)  
     Class 324 : ELECTRICITY: MEASURING AND TESTING  
     324/76.11     MEASURING, TESTING, OR SENSING ELECTRICITY, PER  
                   SE  
     324/76.12     .Analysis of complex waves  
     324/76.19     ..Frequency spectrum analyzer  
     324/77.11     ...Nonscanning  
     324/76.35     ....With delay line
- 2 324/76.43       (0 OR, 2 XR)  
     Class 324 : ELECTRICITY: MEASURING AND TESTING  
     324/76.11     MEASURING, TESTING, OR SENSING ELECTRICITY, PER  
                   SE  
     324/76.39     .Frequency of cyclic current or voltage (e.g.,  
                   cyclic counting etc.)  
     324/76.41     ..Frequency comparison, (e.g., heterodyne,  
                   etc.)  
     324/76.43     ...With plural mixers
- 2 324/76.53       (0 OR, 2 XR)  
     Class 324 : ELECTRICITY: MEASURING AND TESTING  
     324/76.11     MEASURING, TESTING, OR SENSING ELECTRICITY, PER  
                   SE  
     324/76.39     .Frequency of cyclic current or voltage (e.g.,  
                   cyclic counting etc.)  
     324/76.52     ..By phase comparison  
     324/76.53     ...With phase lock
- 2 327/117          (0 OR, 2 XR)  
     Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR  
                   DEVICES, CIRCUITS, AND SYSTEMS  
     327/100        SIGNAL CONVERTING, SHAPING, OR GENERATING  
     327/113        .Frequency or repetition rate conversion or  
                   control  
     327/117        ..Frequency division
- 2 327/119          (0 OR, 2 XR)  
     Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR  
                   DEVICES, CIRCUITS, AND SYSTEMS  
     327/100        SIGNAL CONVERTING, SHAPING, OR GENERATING  
     327/113        .Frequency or repetition rate conversion or  
                   control  
     327/119        ..Frequency multiplication (e.g., harmonic  
                   generation, etc.)
- 2 327/12           (1 OR, 1 XR)

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Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
            DEVICES, CIRCUITS, AND SYSTEMS
327/1      SPECIFIC SIGNAL DISCRIMINATING (E.G.,
            COMPARING, SELECTING, ETC.) WITHOUT SUBSEQUENT CONTROL

327/2      .By phase
327/3      ..Comparison between plural inputs (e.g., phase
            angle indication, lead-lag discriminator, etc.)
327/12     ...With logic or bistable circuit

2 327/158   (1 OR, 1 XR)
Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
            DEVICES, CIRCUITS, AND SYSTEMS
327/100    SIGNAL CONVERTING, SHAPING, OR GENERATING
327/141    .Synchronizing
327/155    ..With feedback
327/156    ...Phase lock loop
327/158    ....With variable delay means

2 327/231   (0 OR, 2 XR)
Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
            DEVICES, CIRCUITS, AND SYSTEMS
327/100    SIGNAL CONVERTING, SHAPING, OR GENERATING
327/231    .Phase shift by less than period of input

2 327/9      (0 OR, 2 XR)
Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
            DEVICES, CIRCUITS, AND SYSTEMS
327/1      SPECIFIC SIGNAL DISCRIMINATING (E.G.,
            COMPARING, SELECTING, ETC.) WITHOUT SUBSEQUENT
CONTROL
327/2      .By phase
327/3      ..Comparison between plural inputs (e.g., phase
            angle indication, lead-lag discriminator, etc.)
327/7      ...With reference signal
327/9      ....With sampling

2 329/306   (0 OR, 2 XR)
Class 329 : DEMODULATORS
329/304     PHASE SHIFT KEYING OR QUADRATURE AMPLITUDE
            DEMODULATOR
329/306     .Input signal combined with local oscillator or
            carrier frequency signal

2 329/323   (0 OR, 2 XR)
Class 329 : DEMODULATORS
329/315     FREQUENCY MODULATION DEMODULATOR
329/323     .Input signal combined with local oscillator or
            carrier frequency signal

2 331/107SL (1 OR, 1 XR)
Class 331 : OSCILLATORS
331/107R    SOLID STATE ACTIVE ELEMENT OSCILLATOR
331/107DP    .Significant distributed parameter resonator
            (e.g., cavity)
331/107SL    ..Stripline type

2 331/117D   (0 OR, 2 XR)
Class 331 : OSCILLATORS
331/107R    SOLID STATE ACTIVE ELEMENT OSCILLATOR
331/108R    .Transistors
331/117R    ..L-C type
331/117D    ...Distributed parameter resonator transistor

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oscillators

2	331/12	(0 OR, 2 XR)
	Class	331 : OSCILLATORS
	331/1R	AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
		OR FREQUENCY SENSING MEANS
	331/10	.Plural A.F.S. for a single oscillator
	331/11	..Plural comparators or discriminators
	331/12	...With phase-shifted inputs
2	331/158	(0 OR, 2 XR)
	Class	331 : OSCILLATORS
	331/154	ELECTROMECHANICAL RESONATOR
	331/158	.Crystal
2	331/175	(0 OR, 2 XR)
	Class	331 : OSCILLATORS
	331/175	FREQUENCY STABILIZATION
2	331/22	(0 OR, 2 XR)
	Class	331 : OSCILLATORS
	331/1R	AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
		OR FREQUENCY SENSING MEANS
	331/18	.With reference oscillator or source
	331/22	..Plural significant heterodyne stages
2	331/3	(2 OR, 0 XR)
	Class	331 : OSCILLATORS
	331/1R	AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
		OR FREQUENCY SENSING MEANS
	331/3	.Molecular resonance stabilization
2	331/37	(1 OR, 1 XR)
	Class	331 : OSCILLATORS
	331/37	BEAT FREQUENCY
2	331/38	(0 OR, 2 XR)
	Class	331 : OSCILLATORS
	331/37	BEAT FREQUENCY
	331/38	.Plural beating
2	331/41	(1 OR, 1 XR)
	Class	331 : OSCILLATORS
	331/37	BEAT FREQUENCY
	331/41	.Frequency stabilization
2	331/47	(0 OR, 2 XR)
	Class	331 : OSCILLATORS
	331/46	PLURAL OSCILLATORS
	331/47	.Oscillator used to vary amplitude or frequency
		of another oscillator
2	331/56	(0 OR, 2 XR)
	Class	331 : OSCILLATORS
	331/46	PLURAL OSCILLATORS
	331/56	.Parallel connected
2	331/74	(0 OR, 2 XR)
	Class	331 : OSCILLATORS
	331/74	COMBINED WITH PARTICULAR OUTPUT COUPLING
		NETWORK
2	331/77	(0 OR, 2 XR)

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	class	331	:	OSCILLATORS
	331/74			COMBINED WITH PARTICULAR OUTPUT COUPLING
				NETWORK
	331/77			.Wave filter
2	331/78			(0 OR, 2 XR)
	class	331	:	OSCILLATORS
	331/78			ELECTRICAL NOISE OR RANDOM WAVE GENERATOR
2	331/94.1			(0 OR, 2 XR)
	class	331	:	OSCILLATORS
	331/94.1			MOLECULAR OR PARTICLE RESONANT TYPE (E.G., MASER)
2	332/104			(0 OR, 2 XR)
	class	332	:	MODULATORS
	332/103			PHASE SHIFT KEYING MODULATOR OR QUADRATURE
				AMPLITUDE MODULATOR
	332/104			.Including logic element (e.g., logic gate or flip-flop)
2	332/112			(2 OR, 0 XR)
	class	332	:	MODULATORS
	332/106			PULSE OR INTERRUPTED CONTINUOUS WAVE MODULATOR
	332/112			.Pulse position, frequency, phase, or spacing modulator
2	332/125			(1 OR, 1 XR)
	class	332	:	MODULATORS
	332/117			FREQUENCY MODULATOR
	332/123			.Including stabilization or alternatively distortion, noise or other interference prevention, reduction, or compensation
	332/125			..Automatic amplitude stabilization or control
2	332/145			(0 OR, 2 XR)
	class	332	:	MODULATORS
	332/144			PHASE MODULATOR
	332/145			.Including amplitude modulator
2	341/118			(1 OR, 1 XR)
	class	341	:	CODED DATA GENERATION OR CONVERSION
	341/118			CONVERTER COMPENSATION
2	341/147			(1 OR, 1 XR)
	class	341	:	CODED DATA GENERATION OR CONVERSION
	341/126			ANALOG TO OR FROM DIGITAL CONVERSION
	341/144			.Digital to analog conversion
	341/147			..Function generator
2	342/128			(1 OR, 1 XR)
	class	342	:	COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
	342/118			DETERMINING DISTANCE
	342/128			.With frequency modulation
2	342/134			(0 OR, 2 XR)
	class	342	:	COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
	342/118			DETERMINING DISTANCE
	342/134			.With pulse modulation

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- 2 342/135 (0 OR, 2 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
           AND DEVICES  
       342/118 DETERMINING DISTANCE  
       342/134 .With pulse modulation  
       342/135 ..Digital (e.g., with counter)
  
- 2 342/173 (0 OR, 2 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
           AND DEVICES  
       342/165 TESTING OR CALIBRATING OF RADAR SYSTEM  
       342/173 .By monitoring
  
- 2 342/200 (2 OR, 0 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
           AND DEVICES  
       342/175 WITH PARTICULAR CIRCUIT  
       342/200 .For frequency modulation
  
- 2 342/204 (0 OR, 2 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
           AND DEVICES  
       342/175 WITH PARTICULAR CIRCUIT  
       342/202 .For pulse modulation  
       342/204 ..With pulse shaping
  
- 2 342/27 (0 OR, 2 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
           AND DEVICES  
       342/27 PRESENCE DETECTION ONLY
  
- 2 348/732 (1 OR, 1 XR)  
 Class 348 : TELEVISION  
       348/725 RECEIVER CIRCUITRY  
       348/731 .Tuning  
       348/732 ..Search tuning
  
- 2 360/51 (2 OR, 0 XR)  
 Class 360 : DYNAMIC MAGNETIC INFORMATION STORAGE OR  
           RETRIEVAL  
       360/39 GENERAL PROCESSING OF A DIGITAL SIGNAL  
       360/51 .Data clocking
  
- 2 360/61 (0 OR, 2 XR)  
 Class 360 : DYNAMIC MAGNETIC INFORMATION STORAGE OR  
           RETRIEVAL  
       360/55 GENERAL RECORDING OR REPRODUCING  
       360/61 .Signal switching
  
- 2 370/337 (2 OR, 0 XR)  
 Class 370 : MULTIPLEX COMMUNICATIONS  
       370/310 COMMUNICATION OVER FREE SPACE  
       370/328 .Having a plurality of contiguous regions  
                   served by respective fixed stations  
       370/329 ..Channel assignment  
       370/336 ...Combining or distributing information via  
                   time channels  
       370/337 ....Multiple access (e.g., TDMA)
  
- 2 372/18 (1 OR, 1 XR)  
 Class 372 : COHERENT LIGHT GENERATORS  
       372/9 PARTICULAR BEAM CONTROL DEVICE

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372/18            .Mode locking

2 375/130        (0 OR, 2 XR)  
           Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
           375/130        SPREAD SPECTRUM

2 375/140        (0 OR, 2 XR)  
           Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
           375/130        SPREAD SPECTRUM  
           375/140        .Direct sequence

2 375/147        (0 OR, 2 XR)  
           Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
           375/130        SPREAD SPECTRUM  
           375/140        .Direct sequence  
           375/147        ..Receiver

2 375/274        (0 OR, 2 XR)  
           Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
           375/259        SYSTEMS USING ALTERNATING OR PULSATING CURRENT

          375/271        .Angle modulation  
           375/272        ..Frequency shift keying  
           375/274        ...Minimum shift keying

2 375/297        (2 OR, 0 XR)  
           Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
           375/295        TRANSMITTERS  
           375/296        .Antinoise or distortion (includes  
                           predistortion)  
           375/297        ..Power amplifier

2 375/298        (0 OR, 2 XR)  
           Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
           375/295        TRANSMITTERS  
           375/298        .Quadrature amplitude modulation

2 375/302        (0 OR, 2 XR)  
           Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
           375/295        TRANSMITTERS  
           375/302        .Angle modulation

2 375/305        (1 OR, 1 XR)  
           Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
           375/295        TRANSMITTERS  
           375/302        .Angle modulation  
           375/303        ..Frequency shift keying  
           375/305        ...Minimum shift keying

2 375/306        (0 OR, 2 XR)  
           Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
           375/295        TRANSMITTERS  
           375/302        .Angle modulation  
           375/303        ..Frequency shift keying  
           375/306        ...One oscillator

2 375/307        (0 OR, 2 XR)  
           Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
           375/295        TRANSMITTERS  
           375/302        .Angle modulation  
           375/303        ..Frequency shift keying  
           375/307        ...Two or more oscillators

- 2 375/316 (2 OR, 0 XR)  
     Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
     375/316 RECEIVERS
- 2 375/317 (0 OR, 2 XR)  
     Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
     375/316 RECEIVERS  
     375/317 .Automatic baseline or threshold adjustment
- 2 375/324 (0 OR, 2 XR)  
     Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
     375/316 RECEIVERS  
     375/322 .Angle modulation  
     375/324 ..Particular demodulator
- 2 375/346 (1 OR, 1 XR)  
     Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
     375/316 RECEIVERS  
     375/346 .Interference or noise reduction
- 2 375/350 (2 OR, 0 XR)  
     Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
     375/316 RECEIVERS  
     375/346 .Interference or noise reduction  
     375/350 ..By filtering (e.g., digital)
- 2 375/367 (1 OR, 1 XR)  
     Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
     375/354 SYNCHRONIZERS  
     375/362 .Frequency or phase control using synchronizing  
                     signal  
     375/365 ..Synchronization word  
     375/367 ...Pseudo noise
- 2 375/372 (1 OR, 1 XR)  
     Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
     375/354 SYNCHRONIZERS  
     375/371 .Phase displacement, slip or jitter correction  
     375/372 ..Elastic buffer
- 2 377/44 (0 OR, 2 XR)  
     Class 377 : ELECTRICAL PULSE COUNTERS, PULSE DIVIDERS, OR  
                     SHIFT REGISTERS: CIRCUITS AND SYSTEMS  
     377/27 SYSTEMS  
     377/44 .Counter controlled counter
- 2 377/47 (1 OR, 1 XR)  
     Class 377 : ELECTRICAL PULSE COUNTERS, PULSE DIVIDERS, OR  
                     SHIFT REGISTERS: CIRCUITS AND SYSTEMS  
     377/27 SYSTEMS  
     377/47 .Pulse multiplication or division
- 2 455/126 (0 OR, 2 XR)  
     Class 455 : TELECOMMUNICATIONS  
     455/91 TRANSMITTER  
     455/126 .With feedback of modulated output signal
- 2 455/164.2 (1 OR, 1 XR)  
     Class 455 : TELECOMMUNICATIONS  
     455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY  
                     CONVERTER  
     455/150.1 .Signal selection based on frequency (e.g.,



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tuning)

- 455/161.1 ..Frequency scanning
  - 455/164.1 ...With automatic frequency control
  - 455/164.2 ....Processor controlled (AFC)
- 2 455/182.1 (0 OR, 2 XR)
- Class 455 : TELECOMMUNICATIONS
  - 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER
  - 455/150.1 .Signal selection based on frequency (e.g., tuning)
  - 455/179.1 ..Channel or station selection
  - 455/182.1 ...With frequency control
- 2 455/192.3 (0 OR, 2 XR)
- Class 455 : TELECOMMUNICATIONS
  - 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER
  - 455/150.1 .Signal selection based on frequency (e.g., tuning)
  - 455/192.1 ..With frequency control
  - 455/192.3 ...Fine tuning
- 2 455/208 (0 OR, 2 XR)
- Class 455 : TELECOMMUNICATIONS
  - 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER
  - 455/205 .Frequency or phase modulation
  - 455/208 ..With synchronized or controlled local oscillator
- 2 455/226.1 (1 OR, 1 XR)
- Class 455 : TELECOMMUNICATIONS
  - 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER
  - 455/226.1 .Measuring or testing of receiver
- 2 455/264 (0 OR, 2 XR)
- Class 455 : TELECOMMUNICATIONS
  - 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER
  - 455/230 .Local control of receiver operation
  - 455/255 ..Local oscillator frequency control
  - 455/257 ...Automatic
  - 455/258 ....Utilizing particular local oscillator control
  - 455/264 .....Voltage control of oscillator
- 2 455/265 (1 OR, 1 XR)
- Class 455 : TELECOMMUNICATIONS
  - 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER
  - 455/230 .Local control of receiver operation
  - 455/255 ..Local oscillator frequency control
  - 455/257 ...Automatic
  - 455/265 ...With local oscillator synchronization or locking
- 2 455/3.02 (1 OR, 1 XR)
- Class 455 : TELECOMMUNICATIONS
  - 455/3.01 WIRELESS DISTRIBUTION SYSTEM
  - 455/3.02 .Receiver for satellite broadcast

- 2 455/304 (0 OR, 2 XR)  
 Class 455 : TELECOMMUNICATIONS  
 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY  
 CONVERTER  
 455/296 .Noise or interference elimination  
 455/303 ..Using plural separate signal paths  
 455/304 ...Phase shift in at least one path
- 2 455/310 (0 OR, 2 XR)  
 Class 455 : TELECOMMUNICATIONS  
 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY  
 CONVERTER  
 455/296 .Noise or interference elimination  
 455/310 ..Internally generated noise or oscillations
- 2 455/42 (0 OR, 2 XR)  
 Class 455 : TELECOMMUNICATIONS  
 455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS  
 455/42 .Frequency or phase modulation
- 2 455/67.13 (0 OR, 2 XR)  
 Class 455 : TELECOMMUNICATIONS  
 455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS  
 455/67.11 .Having measuring, testing, or monitoring of  
 system or part  
 455/67.13 ..Noise, distortion, or unwanted signal  
 detection (e.g., quality control, etc.)
- 2 455/75 (0 OR, 2 XR)  
 Class 455 : TELECOMMUNICATIONS  
 455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.,  
 TRANSCEIVER)  
 455/75 .With frequency stabilization (e.g., automatic  
 frequency control)
- 2 455/77 (0 OR, 2 XR)  
 Class 455 : TELECOMMUNICATIONS  
 455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.,  
 TRANSCEIVER)  
 455/77 .With tuning
- 2 455/84 (0 OR, 2 XR)  
 Class 455 : TELECOMMUNICATIONS  
 455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.,  
 TRANSCEIVER)  
 455/84 .With a common signal processing stage
- 2 702/69 (1 OR, 1 XR)  
 Class 702 : DATA PROCESSING: MEASURING, CALIBRATING, OR  
 TESTING  
 702/1 MEASUREMENT SYSTEM IN A SPECIFIC ENVIRONMENT  
 702/57 .Electrical signal parameter measurement system  
 702/66 ..Waveform analysis  
 702/69 ...Signal quality (e.g., timing jitter,  
 distortion, signal-to-noise ratio)
- 2 702/75 (1 OR, 1 XR)  
 Class 702 : DATA PROCESSING: MEASURING, CALIBRATING, OR  
 TESTING  
 702/1 MEASUREMENT SYSTEM IN A SPECIFIC ENVIRONMENT

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702/57      .Electrical signal parameter measurement system
702/66      ..Waveform analysis
702/75      ...Frequency

2  708/272      (0 OR, 2 XR)
    Class 708 :  ELECTRICAL COMPUTERS:  ARITHMETIC PROCESSING
                  AND CALCULATING
708/100      ELECTRICAL DIGITAL CALCULATING COMPUTER
708/200      .Particular function performed
708/270      ..Function generation
708/272      ...Memory used to store waveshape

2  725/68      (0 OR, 2 XR)
    Class 725 :  INTERACTIVE VIDEO DISTRIBUTION SYSTEMS
725/63      SATELLITE VIDEO DISTRIBUTION SYSTEM
725/68      .Receiver

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ability 1  
 above 5  
 abstract 1  
 accompanying 1  
 accomplished 1  
 accordance 2  
 according 2  
 achieved 2  
 acquisition 1  
 across 1  
 adaptable 1  
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 advance 1  
 advantages 2  
 after 7  
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 also 8  
 alternative 1  
 ambiguity 1  
 among 2  
 amplitude 1  
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 antenna 2  
 any 3  
 aperture 4  
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 appears 1  
 appended 1  
 application 1  
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 appreciated 2  
 approach 5  
 approaches 2  
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 arbitrary 1  
 architecture 1  
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 are 14  
 arrangement 3  
 art 3  
 artisan 2  
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 assignee 1  
 associated 7  
 at 22  
 attorney 2  
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generator 17  
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sar 8  
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sequentially 1  
serrodyne 1  
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smoothed 1  
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sqt 1  
stairstep 1  
standard 1  
static 1  
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sum 5  
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swept 29  
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throughout 1  
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